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An Abstract

"THE RADIOACTIVE HEMATITE DEPOSITS IN THE VICINITY OF CARG-CH'IEN-TSURG-LIEG, LIAO-YANG HSILN, MIKDEN PROVINCE"

ASANO Goro IMAMURA Zengo

Mineral deposits containing Niobium and Tantalum were reported in Wang-Ch'ien-Tsung-Ling, which is located in the vicinity of he-lan-keu in Liac-Yang Hsien, by IKEGAMI Shigeo associated with the "ining Division, Kurayama Showa Steel Works. This area was involtigated with the assistance of Ikegami in March 1937. The investigation and research results proved that these minerals were merely a type of hematite, specularite, contained no michium or tantalum, and economically of no value. This specularite contained a minute quantity of lead, slightly radioactive, its veins into esting, and because it resembles wolframite, columbite, and other minerals, we decided to analyze it and give the findings in this report.

The earth in the vicinity of Wang-chien-tsung-ling seems to belong to the Sinian System and is composed of sedimentary rock which is treversed by diorites, granite and granodiorite-porphyry. This sedimentary rock indicates an alternation of tuff-mudstone, black shale and limestone. The strata sequence is difficult to determine due to the many strike faults but in general should be sedimentary and columnar, as indicated in the 1/50,000 map.

The tuff-mudstone acts as the mother rock of the brecciated vein while the diorite seems to be irectly associated with the deposit formation.

A small scale deposit of mica and granite found exposed in southeast Esia-ma-tang, is partially granular and light-brown. Its chied components are oligoclase, microline, quartz, biotite and mescovite.

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The granodicrite-porphyry deposit found exposed in northern Hsia-ma-targ, runs from east to west, light bluish-gray, minute and sphanitic, and the porphyritic formation is clearly decernible. These granular multi-rock base aphanitic crystals are composed of microline (intermediary feldspar crystals?) which has transformed into silky mica and biotite. The rock base has a microgranitic texture and its chief components are alkalinic felds; ar and quartz with some biotite.

The structure of all these mineral deposits in the above areas are accommically of no value.

Chemical analysis of these mineral deposits proved that they here practically pure speculatite and contained very little in writies. However, this analysis was carried out on the mineral deposits only which were hand-picked. Its powdered form more or loss melts readily in houted 6% hydrochloric acid and the residue showed some white quartz and/or foldspar. Subsequent analysis of a small amount of this mineral produced the following:

Mineral Voin	Pb	Th	U
No. 5	0.95	trace	trace

This speculatite proved to be radioactive been so it contained traces of transum and thorium, and this is illustrated in the above table. It also contains a comparatively large amount of load but at completely failed to ascertain in what form the lead exists in the deposits. However, the fact that this lead is not a sulphide is definite.

Note: Map of Area is available in the original document?

From: "Chishitsu Chosajo Yoho" (Memoirs of the Geological Institute,

Manchuria) 1937.

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SEISMIC

WORKS OF THE SEISMOLDIEM. INSTITUTE FLAG (C.T.LOGUE OF DEEP-FOCUS CARTH-QUAKES ASSECTED THE SELECTION FOR THE USES, COVERING THE PETOD 1909-1964), I. A. Linden, Izd-volk Nauk SSSK, Loseow-Leningrad, 1947, 14 pp, 1 map

This work contains the obtained from proceeding the data of selanic stations of the U.S. to \$50 deep-focus (50 to 800 siloneters) earthquakes. Outenherg and denter's tables were used to determine the depth of the centrum, the distance from the station to the epicenter, the time at the epicenter, and the coordinates of the spicenter from the original selanograms. The catalogue contains only a few earthquakes which occurred far from the selanic stations of the U.S., since only the selanograms of the latter were used in the compilation. On the 450 earthquakes included, 20%, mainly for the period 1909-1917, where the focus carthquakes separates the earthquakes by depth into three groups, i.e., 50 to 140 kilometers, 15) to 340 kilometers, and 350 kilometers and more. The greatest centrum depth calculated was 710 kilometers for the carthquakes of 29 June 1934, whose epicenter was located in the Flores Sea.

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